

REMARKS

Claims 8, 11, 12, 19 and 20 remain pending in the present application. Claims 1, 3-7, 10 and 13-18 have been cancelled. Claims 11, 12 and 19 have been amended. Claim 20 is new. Basis for the amendments and new claims can be found throughout the specification, claims and drawings originally filed.

CLAIM OBJECTIONS

Claim 3 is objected to because of informalities. Claim 3 has been cancelled. Withdrawal of the objection is respectfully requested.

REJECTION UNDER 35 U.S.C. § 102

Claims 11 and 12 are rejected under 35 U.S.C. § 102(e) as being anticipated by Fujimoto, et al. (U.S. Pat. No. 6,115,426). Claim 11 has been amended to define a transmitter unit for transmitting known signals and data signals. Each of the known signals have a first guard interval and each of the data signals has a second guard interval. The second guard interval of the data transmission signal is determined in accordance with a delay of a received signal and it is set shorter than the first guard interval of the known signal.

In Fujimoto (U.S. Pat. No. 6,115,426) a transmitter transmits a data signal having a guard interval T_G . Fujimoto fails to disclose, teach or suggest a transmission of a known signal having its own guard interval in addition to the transmission of the data transmission signal having its guard interval T_G where the guard interval of the known signal is set to be longer than the guard interval of the data transmission signal.

Thus, Applicants believe Claim 11, as amended, patentably distinguishes over the art of record. Likewise, Claim 12, which depends from Claim 11, is also believed to patentably distinguish over the art of record. Reconsideration of the rejection is respectfully requested.

REJECTION UNDER 35 U.S.C. § 103

Claims 1, 3 and 10 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Fujimoto, et al. (U.S. Pat. No. 6,115,426) in view of Hiramatsu, et al. (U.S. Pat. No. 6,708,020 B1). Claims 4 and 5 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Fujimoto, et al. (U.S. Pat. No. 6,115,426) in view of Hiramatsu, et al. (U.S. Pat. No. 6,708,020 B1) and Kuwahara, et al. (U.S. Pat. No. 6,084,928). Claims 6 and 7 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Fujimoto, et al. (U.S. Pat. No. 6,115,426) in view of Anderson, et al. (U.S. Pat. No. 6,229,792 B1). Claim 13 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Fujimoto, et al. (U.S. Pat. No. 6,115,426) in view of Sato (U.S. Pat. No. 6,058,149). Claims 14-18 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Fujimoto, et al. (U.S. Pat. No. 6,115,426) in view of Forssen, et al. (U.S. Pat. No. 5,615,409).

Claims 1, 3-7, 10 and 13-18 have been cancelled. Reconsideration of the rejection is respectfully requested.

Claim 19 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Fujimoto, et al. (U.S. Pat. No. 6,115,426) in view of Alamouti, et al. (U.S. Pat. No. 5,933,421). Claim 19 has been amended to depend from Claims 8 and 11. Claim 8 has been allowed. Claim 11, as discussed above, has been amended and is now

believed to patentably distinguish over the art of record. Thus, Claim 19 is also believed to patentably distinguish over the art of record. Reconsideration of the rejection is respectfully requested.

NEW CLAIM

Claim 20 is a dependent claim which depends from Claim 11 and it is believed to properly further limit Claim 11.

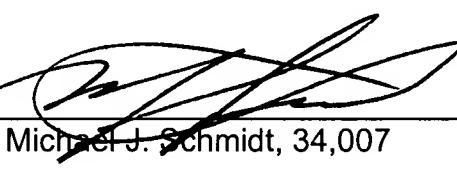
CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action and the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

Dated: January 5, 2006

By:


Michael J. Schmidt, 34,007

HARNESS, DICKEY & PIERCE, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
(248) 641-1600

MJS/pmg